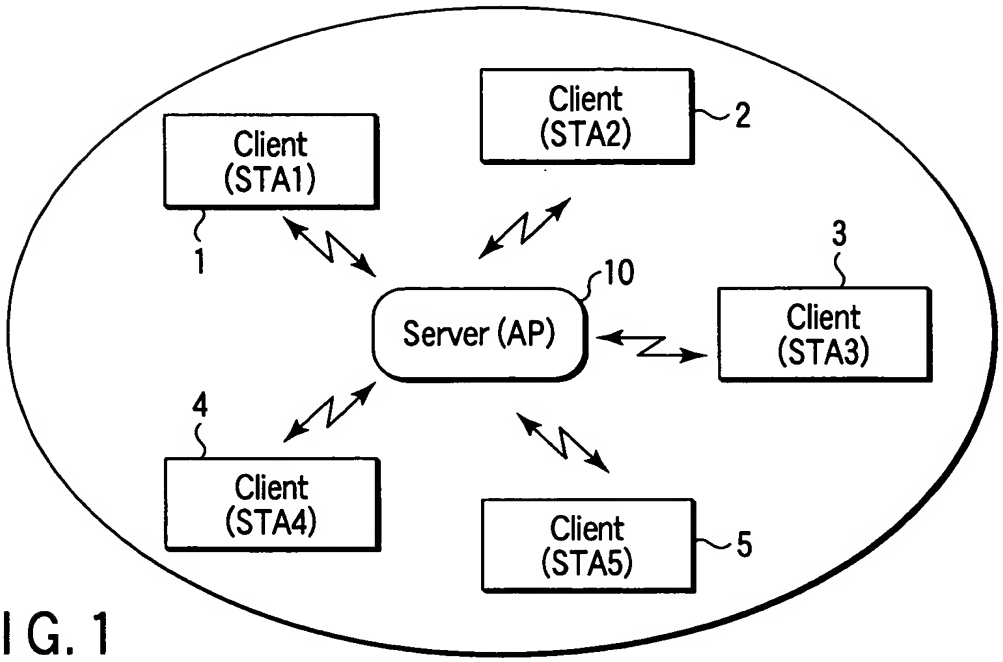
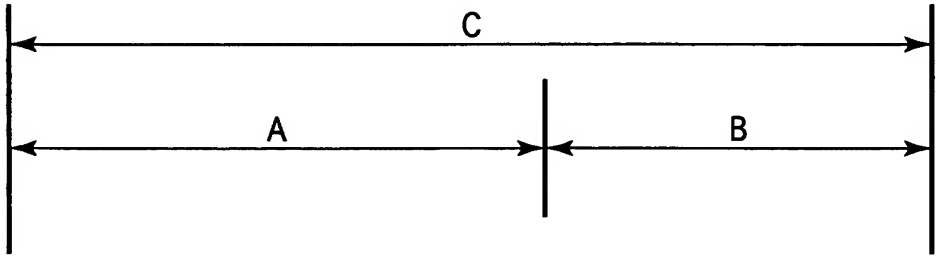


FIG. 1

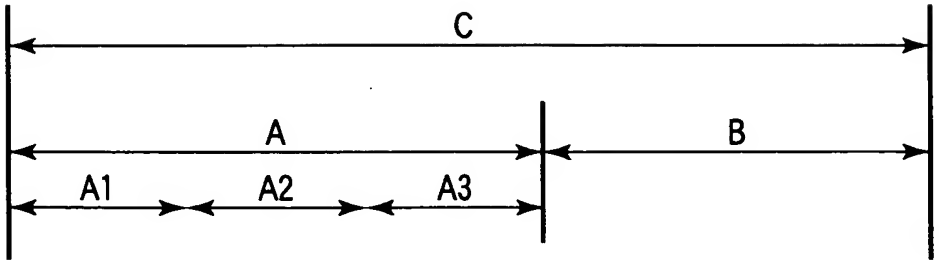


A : Interval in which each client can exclusively use radio transmission medium for given interval (e.g., PCF in IEEE802.11)
B : Interval in which each client acquires and uses radio transmission medium (e.g., DCF in IEEE802.11)
C : Interval including A and B. This interval is repeatedly executed

FIG. 2

Order	Management client
1	Client 2
2	Client 3
3	Client 5

FIG. 3



A1 : Exclusive interval of client 2
A2 : Exclusive interval of client 3
A3 : Exclusive interval of client 5

• Clients 1, 4 transmit/receive data in section B

FIG. 4

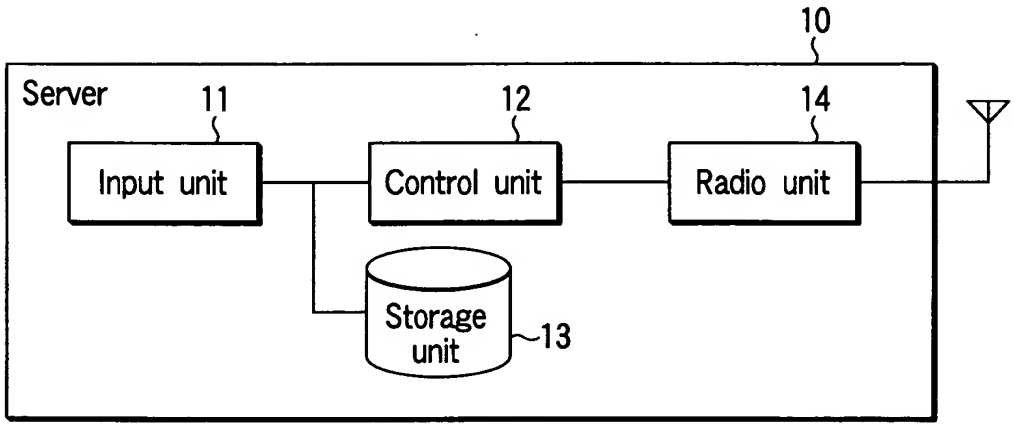


FIG. 5A

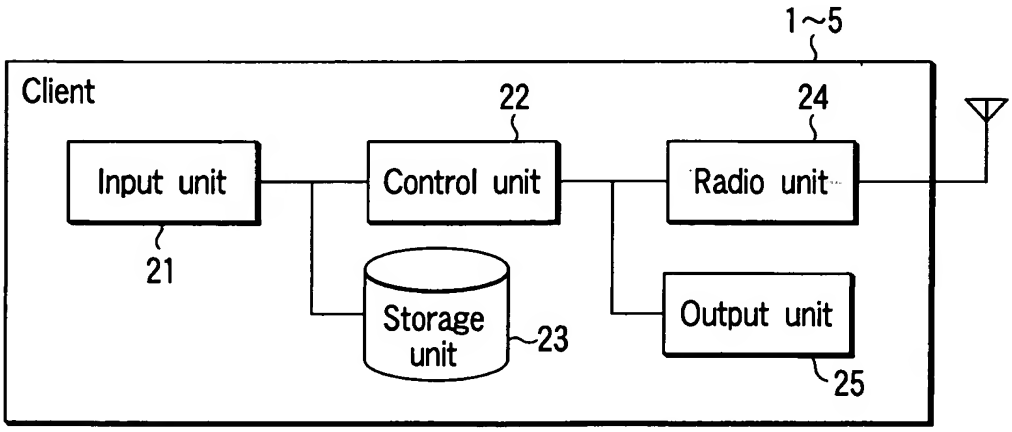


FIG. 5B

Type	Description of apparatus	Example
1	Apparatus constantly requiring transmission/ reception of data for each given interval	AV apparatuses such as TV
2	Apparatus requiring transmission/reception of data for each given interval depending on situation	PC, anticrime apparatuses
3	Apparatus which does not require transmission/ reception of data for each given interval	Household electrical appliances such as refrigerator

Example of apparatus type information

FIG. 6

Order	Client apparatus	Situation data (request rate)	Apparatus type
1	Client 2	1Mbps	1
2	Client 3	0.5Mbps	1
3	Client 5	0.1Mbps	2

Example of list data held by server

FIG. 7

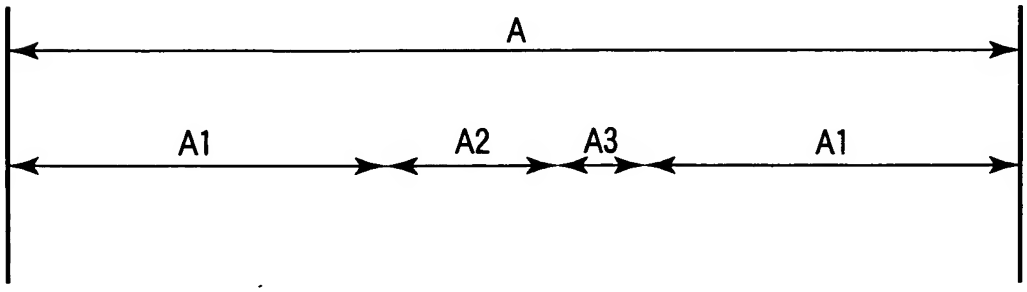
List data managed by server

Order	Management client
1	Client 2
2	Client 3
3	Client 5

⇦ Even when situation of client 5 changes, and data transmission/reception amount is to be increased, order in list data does not change. Therefore, there is possibility that amount of one data transmission/reception in exclusive interval cannot be increased

FIG. 8A

Allocation of exclusive interval based on list data



A1 : Exclusive interval of client 2
A2 : Exclusive interval of client 3
A3 : Exclusive interval of client 5

FIG. 8B

List data managed by server

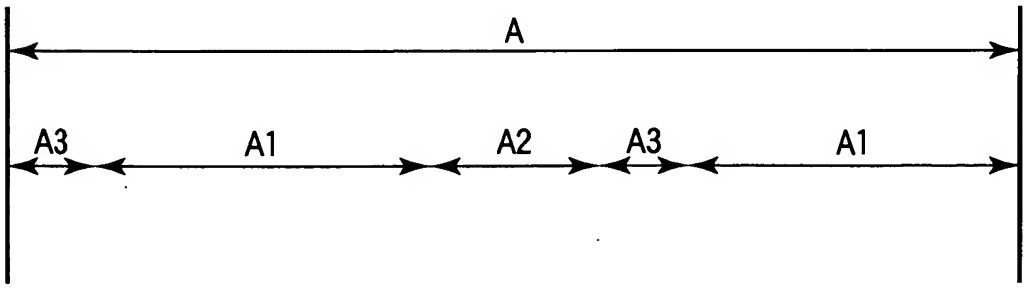
Order	Management client
1	Client 5
2	Client 2
3	Client 3

⇐

Since situation of client 5 changes, list data is updated to raise order of client 5 to top place.
Accordingly, it is possible to increase amount of one data transmission/reception in exclusive interval

FIG. 9A

Allocation of exclusive interval based on list data



A1 : Exclusive interval of client 2
A2 : Exclusive interval of client 3
A3 : Exclusive interval of client 5

FIG. 9B

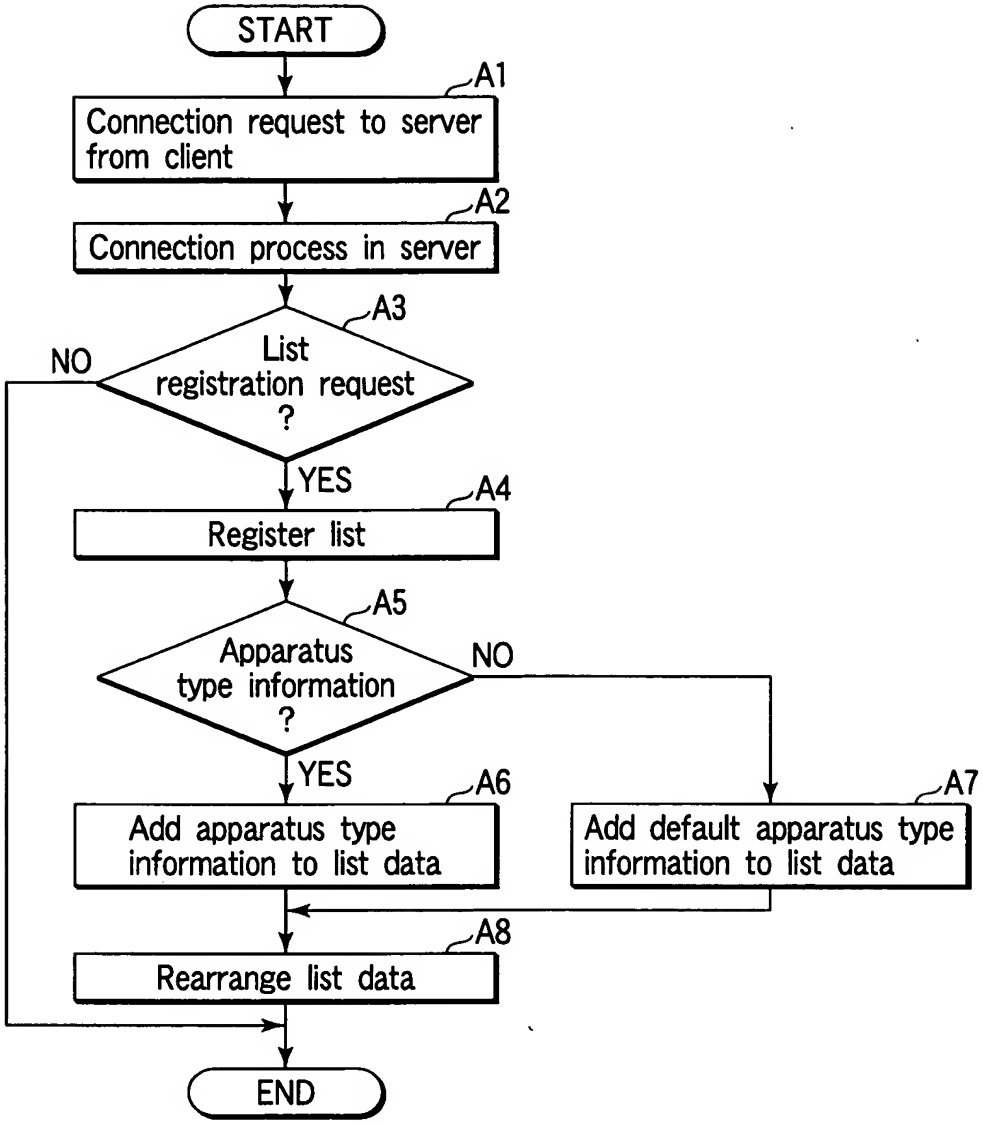

START
A1
Connection request to server from client
A2
Connection process in server
A3
List registration request ?
NO
YES
A4
Register list
A5
Apparatus type information ?
NO
YES
A6
Add apparatus type information to list data
A7
Add default apparatus type information to list data
A8
Rearrange list data
END

FIG. 10

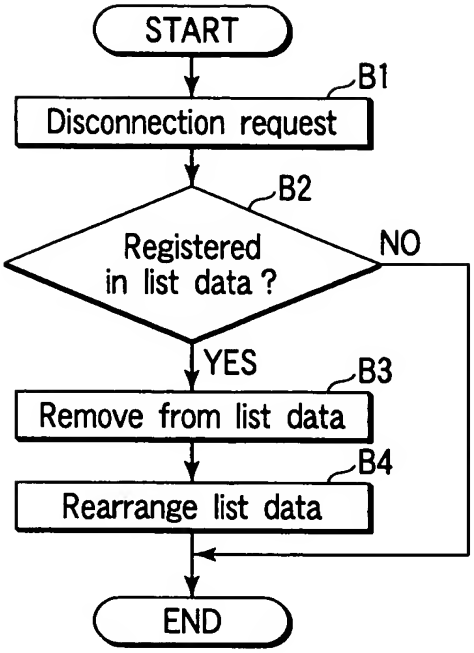


FIG. 11

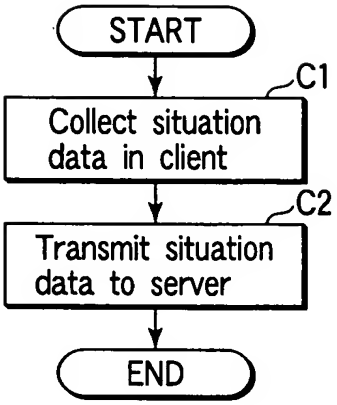


FIG. 12

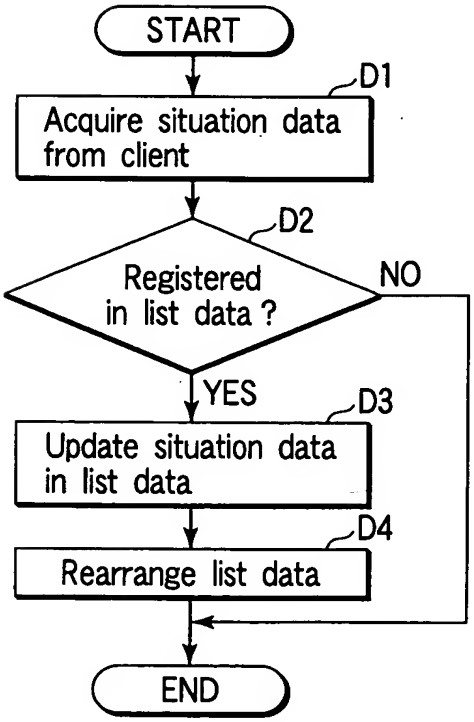


FIG. 13

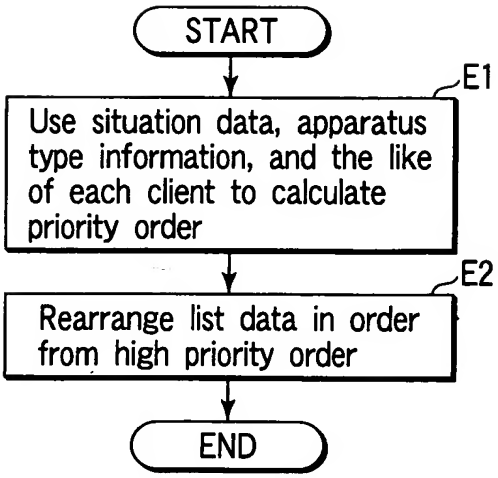


FIG. 14